UID Implementation & Employment In DoD's Organic Maintenance Concep**Depots**rations

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Orig. Part No. (1P)1234

Serial No. (S)786950

Steve Heilman, LMI Depot UID Off-Site 23 February, 2005



Outline



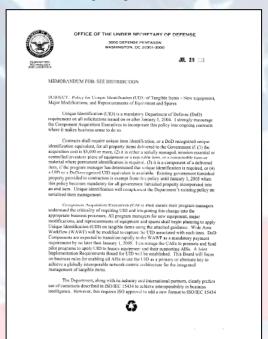
- How does current UID policy affect the organic Depots?
- What are our Depots expected to do?
- What's the best way for the Depots to meet their UID responsibilities?
 - New depot manufactured items
 - Legacy personal property items
- What's the best way to integrate UID & SNT/SIM?
- Where do we go from here?



How Does UID Policy Affect the Organic Depots?

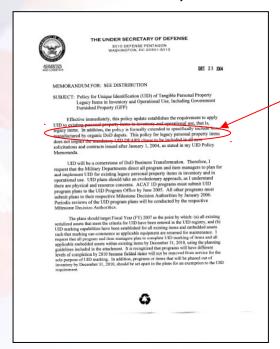


USD(AT&L) Policy Memo 29 July, 2003



- New tangible items
 - Begin NLT 1 Jan 2004
 - commercial purchases
 - Begin NLT 1 Jan 2005
 - depot manufactured items
 - verbal guidance

USD(AT&L) Policy Memo 23 December, 2004



Policy formally extended to include depot manufactured items.

- Legacy items in inventory
 - IOC Jul 2005
 - pilot depots
 - Complete NLT Sep 2007
 - all existing serialized items
 - Complete all items NLT Dec 2010

How Does UID Policy Affect the Organic Depots (New Items)



- UID policy is directed to the DoD Acquisition Community (Service Acquisition Executives, PEOs, PMs, Commodity Managers).
- Policy makes UID a mandatory DoD requirement on all new equipment and materiel delivered pursuant to solicitations issued on or after January 1, 2004.
- Manufacturer responsible for compiling and recording required asset information specific to each part he makes so the data may be entered into the UID Registry.
- Equipment and materiel manufactured by DoD's organic depots, either for their own use or for delivery to the operating forces are considered "new" items which fall under UID marking policy.



What Does the Policy Say About New Items?



- Program Managers will identify items embedded in end items that require unique identification, including embedded subassemblies, components and parts. These embedded items will identified in a Contract Data Requirements List (CDRL) or Exhibit
- Contracting Officers shall include the clause at 252.211-7003, Item Identification and Valuation, in all solicitations and contracts that require delivery of items.
- All items delivered to the Department will be delivered under a contract line item and the Department's acquisition cost of each item will be identified under a contract line item or sub-line item.
- Contractors are required to provide unique item identification, or a DoD recognized unique identification equivalent, for all items delivered with an acquisition cost of \$5,000 or more and as designated by the requiring activity for items less than \$5,000.
- Under the clause at 252.211-7003, marking of items shall be in accord with MIL-STD-130L, Identification Marking of U.S. Military Property



How Does UID Policy Affect the Organic Depots (Legacy Items)?

- UID policy is directed to the DoD Acquisition Community (Service Acquisition Executives, PEOs, PMs, Commodity Managers).
- Policy makes UID a mandatory DoD requirement on all existing legacy personal property items in inventory and in operational use.
- ACAT 1D Programs must submit UID program plans by June 2005. All other programs must submit UID plans by January 2006.
- Organizations assigning or marking UIIs for legacy items shall report descriptive data (e.g., UII, item description, current part number), parent UII (where applicable), and marking data to the UID Registry.
- In the case of DoD organic depot maintenance operations, DUSD(L&MR) shall develop a UID implementation plan specifically for legacy personal property items; the initial version of the plan will be published NLT 31 May, 2005.
- Full operating capability (FOC) at all organic depots will be put in place NLT FY 2007
 - DUSD(L&MR) will publish an FOC UID CONOPS prior to December 2005.



What Does the Policy Say About Legacy Items?



- UID Plans should target FY 2007 as the point by which:
 - All existing serialized assets that meet the criteria for UID have been entered in the UID Registry
 - UID marking capabilities have been established for all existing items and embedded assets such that marking can commence as applicable equipment are returned for maintenance.
- The **Services** should plan on establishing initial depot operating capabilities for legacy personal property items by July 2005 at the three pilot UID depots.
 - Planning will ensure that appropriate design authority approval is obtained prior to actual parts marking.
- OSD UID budget guidance to Components will be issued by April 2005
- OSD AIS and depot roadmaps for key data, processes and systems will be developed and necessary infrastructure identified by September 2005.
- Effective January 1, 2006, all Government Furnished Property (GFP) must meet the UID policy requirements.



What are our Depots Expected to Do?

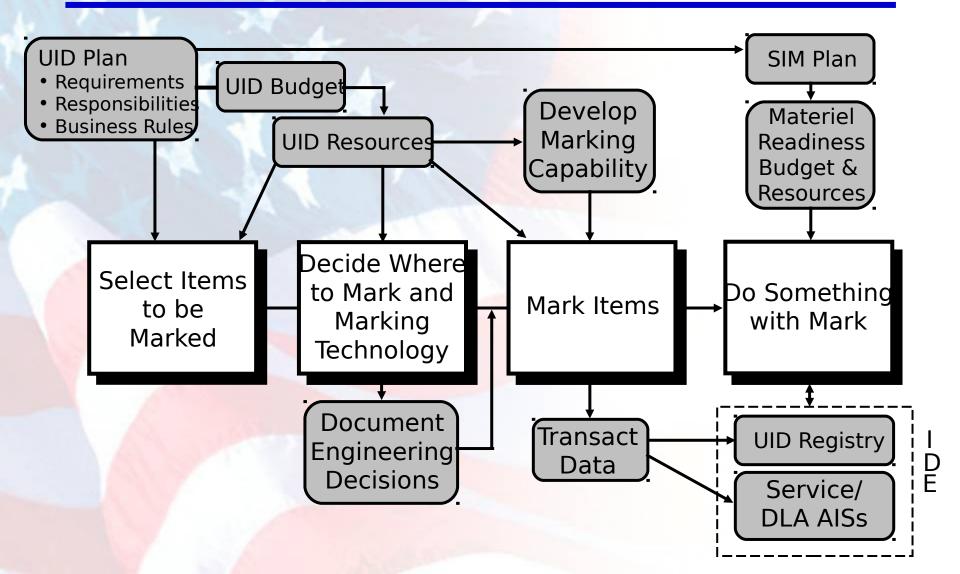






What are our Depots Expected to Do?







What are our Depots Expected to Do?



- Acquire the authority to mark items
- Identify which items need to be marked
- Plan and budget for UID marking capability
- Develop the capability to mark items
- Determine where and how to apply the UID mark
- Mark the item(s)
- Obtain UID data for each individual item marked
- Transact data to the UID Registry and other DSSs
- (Do something with the mark to generate ROI…)



Department of Defense Concept of Operations (CONOPS)

for

Unique Identification (UID) Implementation and Employment within DoD's Organic Maintenance Depots



Preliminary Draft Version 3.2 October 2004

Prepared by the Office of the Secretary of Defense Maintenance Policy, Programs and Resources

- Acquire the authority to mark items
 - Alternatives and Preferred Alternative
- Identify and prioritize which items to mark
 - Alternatives and Preferred Alternative
- Plan and budget for UID marking capability
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- Transact data to the UID Registry and other DSSs
 - Alternatives and Preferred Alternative

- **Goal**: achieve common understanding and shared expectations of the UID parts marking and data management responsibilities which have been assigned, or will be assigned to our organic depots.
- <u>Objective</u>: standardize as much of our UID implementation strategy as makes sense, avoiding duplication of effort and redundant investment.
- Expected Meeting Outcome: achieve consensus on the preferred alternative for meeting key depot UID responsibilities, in particular:
 - 1. Funding UID implementation,
 - 2. Roles & responsibilities of the cognizant Program Manager/Item Manager,
 - 3. Business rules for engineering involvement in direct parts marking at the organic depots, and
 - 4. Depot processes for UID data transaction and data management, to include SNT/SIM.



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Plan and budget for UID marking capability

- Alternative #1 Parts marking is a Program requirement, prioritized and funded by the cognizant acquisition manager
- Alternative #2 Parts marking is merely an additional step in the manufacturing process (or repair process in the case of legacy marking); marking is prioritized by the depot and funded out of the depot's manufacturing (or repair) account
- Alternative #3 Parts marking is an Operational requirement, prioritized by the warfighter and funded out of O&M accounts
- PREFERRED ALTERNATIVE =



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Identify and prioritize which items to mark

- Alternative #1 Depots determine what to mark and schedule the work IAW current shop floor control processes
- Alternative #2 Program Managers determine what to mark and assign the work to the depots
- Alternative #3 Operational Logisticians determine what to mark and assign the work to the depots
- PREFERRED ALTERNATIVE =



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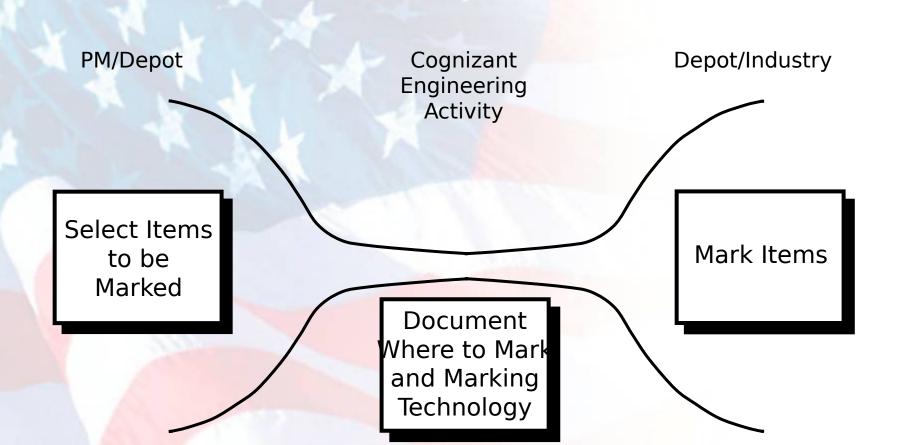
Prepared by the Office of the Secretary of Defense Maintenance Policy, Programs and Resources

Determine where and how to apply the UID mark

- Alternative #1 Use only labels/label plates (no direct parts marking); no significant engineering analysis required.
- Alternative #2 Mark labels/label plates per alternative #1; contract commercially for engineering analyses of parts which require DPM.
- Alternative #3 Mark labels/label plates per alternative #1; buy (direct fund) engineering services from current government technical authority for items to be directly marked.
- PREFERRED ALTERNATIVE =



UID Marking Bottleneck





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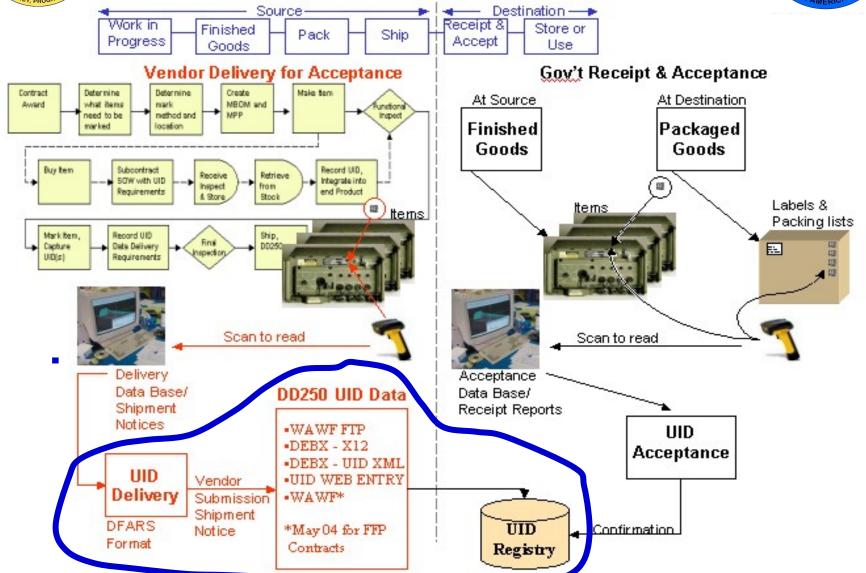
Transact data to the UID Registry and other DSSs

- Alternative #1 Direct data submission.
- Alternative #2 Wide Area Workflow.
- Alternative #3 Combination of direct submission and WAWF.
- PREFERRED ALTERNATIVE =



UID Data Submission





Source: DAU



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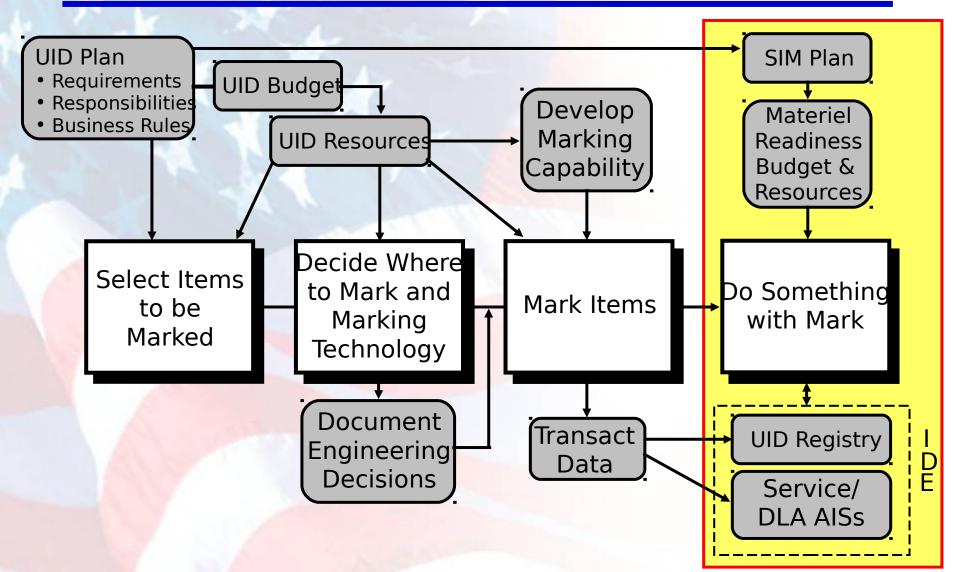
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Vision End State: UID-Enabled SNT/SIM



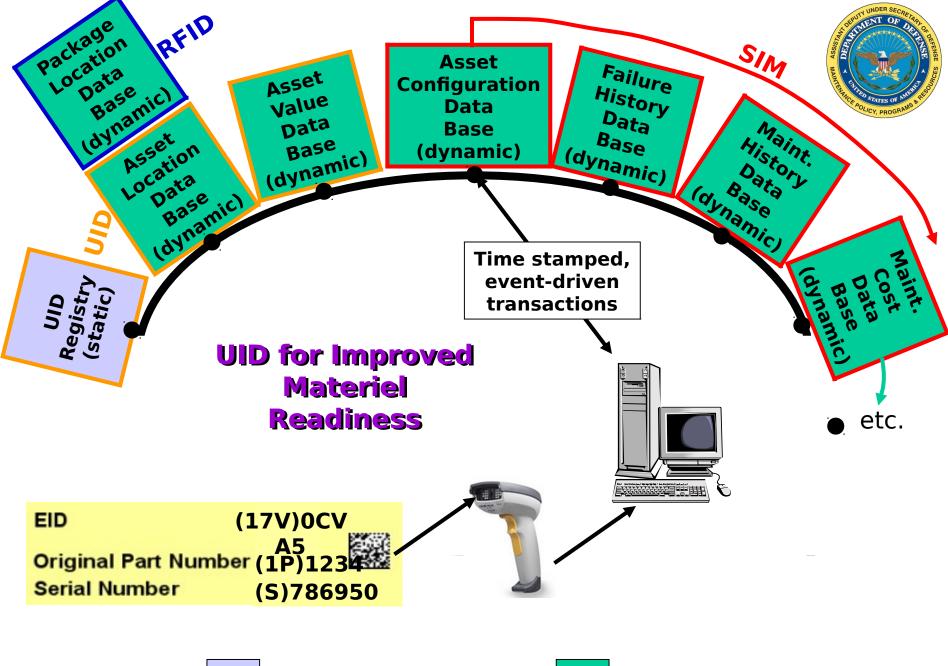


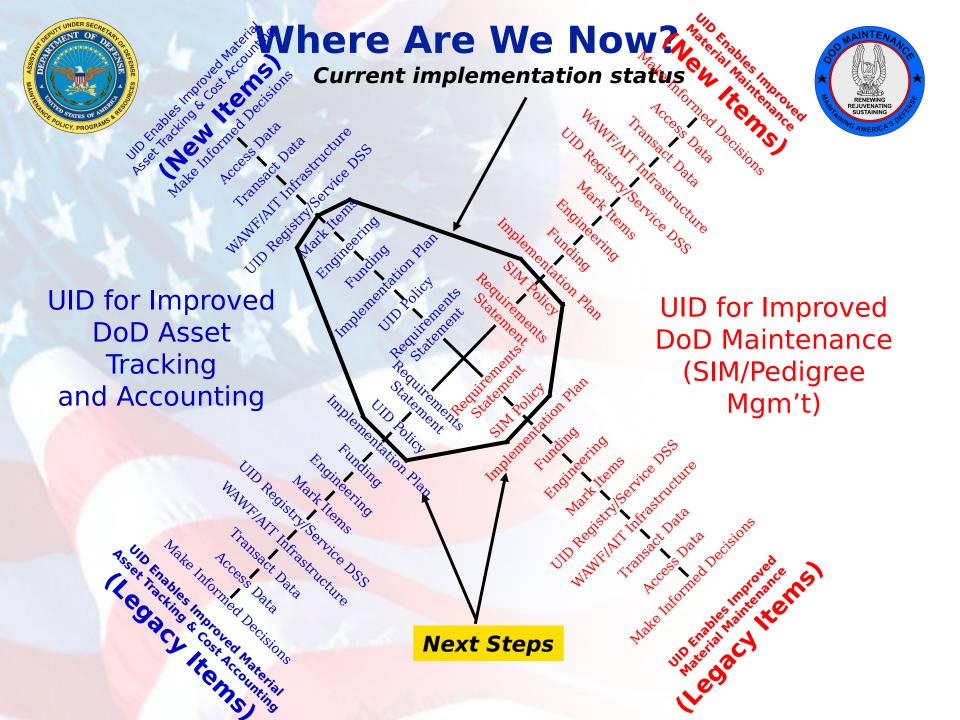


Vision End State: UID-Enabled SNT/SIM



- Through SIM, the UID will ultimately be associated, not only with an item's inventory and accounting information, but also with it's configuration, reliability and maintenance history.
- In the same way that an individual's unique Social Security Number is used by physicians to locate and access the correct medical record so that patient diagnosis and treatment may be accomplished effectively and safely, the UID number will point to repairable-specific information within the UID Registry which will enable DoD maintainers to troubleshoot faster, manage configuration better and take actions to restore inherent equipment reliability when unacceptable MTBF is discovered.









Questions?





Back-up Slides



What Materiel is Being Uniquely Identified?



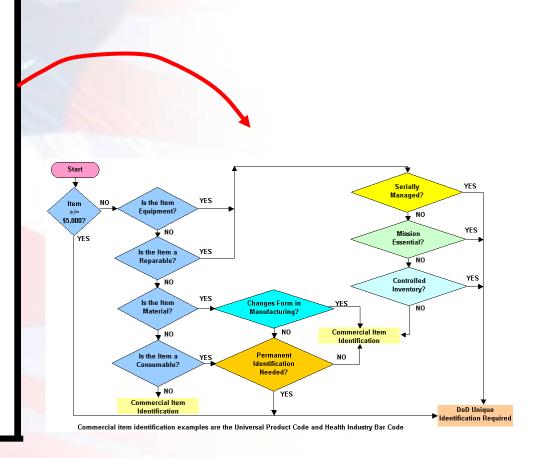
Department of Defense Guide to Uniquely Identifying Items



Assuring Valuation, Accountability and Control of Government Property

> Version 1.4 April 16, 2004

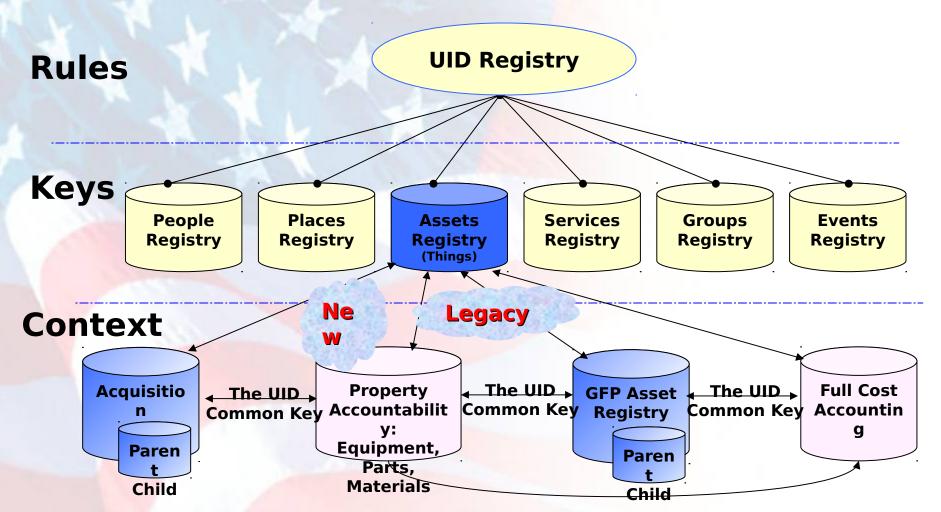
Office of the Principal Deputy Under Secretary of Defense (Acquisition, Technology & Logistics)





How is DoD Doing UID? UID Registry Concept







Implementing UID in DoD Maintenance Marking Items

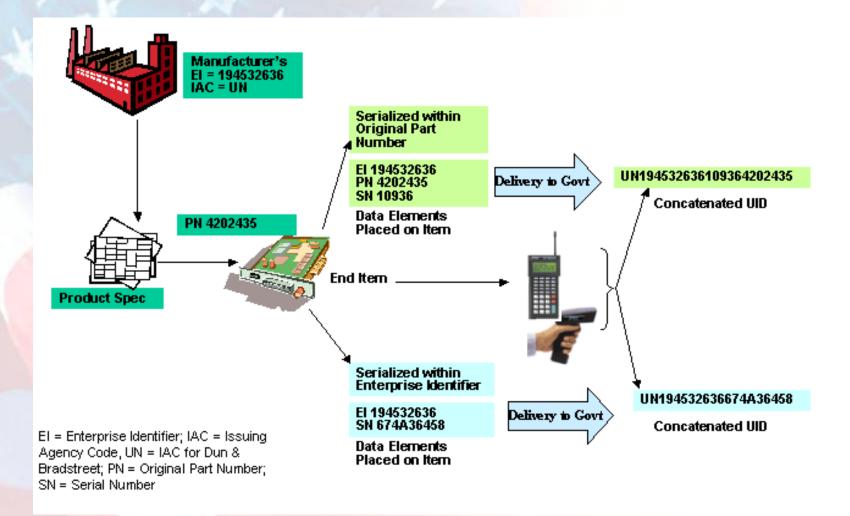


- DoD Guide to Uniquely Identifying Items
 - Appendix D The Mechanics of Unique Identification
 - Addresses Constructs 1 & 2
 - Semantics to be Machine Readable
 - Syntax instructions to assemble data fields to define unique identifier
 - Multiple examples provided for both constructs
- MILSTD 130L
 - Department of Defense Standard Practice [for] Identification of U.S. Military Property
 - 10 October 2003
 - Provides criteria by which product designers develop specific item identification marking requirements
- Association for Automatic identification (AIM) and Data Capture Technologies
 - Association of Solution Providers
 - http://www.aimglobal.org
- But, per USD (AT&L) Memo of 26 November 2003, UID equivalents are permissible



Implementing UID in DoD Maintenance Building the UID







Implementing UID in DoD Maintenance Compiling Item-Specific Data



Required Information

- Item Description
- Unique identification, consisting of
 - Concatenated DoD unique item identification; or
 - DoD recognized unique identification equivalent
- Unique item identifier type
- Issuing agency code (if DoD unique item identifier is used)
- Enterprise identifier (if DoD unique item identifier is used)
- Original part number
- Serial number
- Unit of measure



Implementing UID in DoD Maintenance Compiling Item-Specific Data



Required Information (cont.)

- Government's unit acquisition cost
- Ship-to code
- Contractor's CAGE code or DUNS number
- Contract number
- Contract line, subline, or exhibit number
- Acceptance code
- Shipment date



Implementing UID in DoD Maintenance Data Submission to UID Registry



- Initial constraints for UID data submission include:
 - Submit fixed price contracts using an interim solution until WAWF is ready to receive data in May 2004
 - Submit cost type contracts using an interim solution until WAWF is ready in October 2004
 - Provide for end items only
- When a contractor ships items UID data must be included in the shipment notification as the contract specifies and as the PM requests.
- Submission of UID data in the interim
 - FTP format via WAWF
 - X12 Ship Notice/Shipment and Billing Notice via DEBX
 - UID XML format
 - Manually enter via UID Web entry site

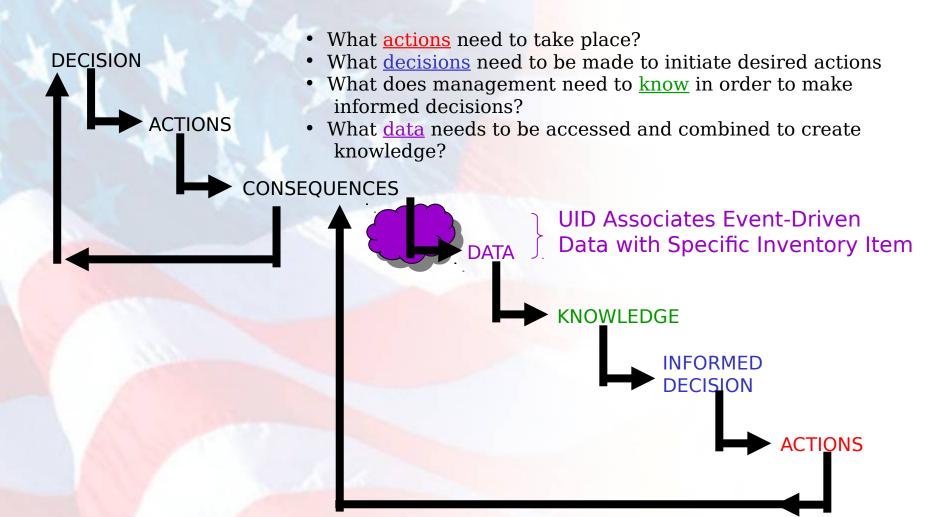
Employing UID in DoD Maintenance Business Rules for Capturing the UID

- For activities after initial delivery, in support of the product life cycle, any entity that collects data about the item must be capable of associating the data with the UID in accordance with program requirements.
 - Need an AIT reader
- Discovery of duplicate UID will occur when the government attempts to register the UID in its internal data base. If a true duplicate exists, the government will work with appropriate enterprise(s) to resolve the duplication
- In a database, once the UID is derived it shall not be parsed to determine the original elements.
- A database shall be capable of using the UID or combination of its component data elements to retrieve the data record associated with the item represented by the UID



UID Objective: Informed Decision Making

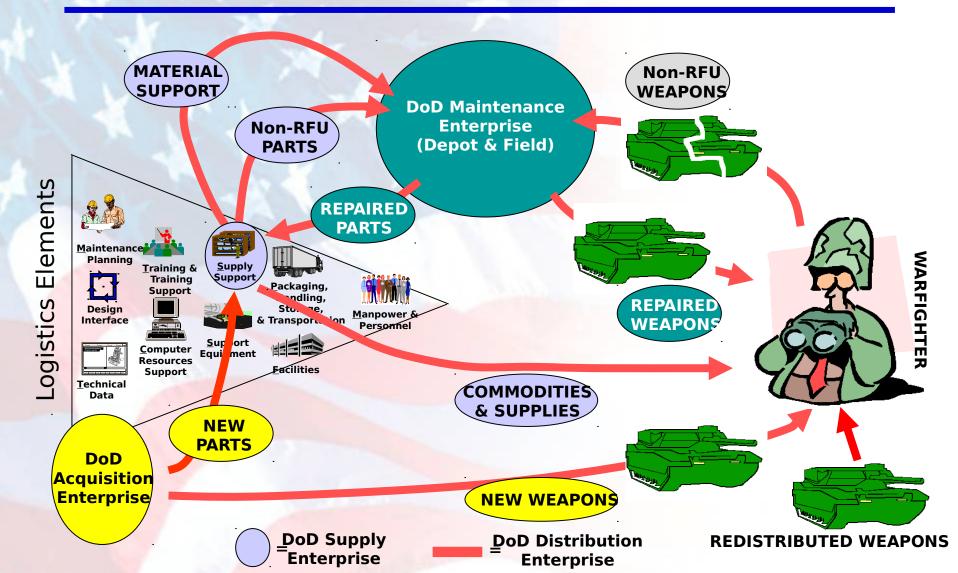


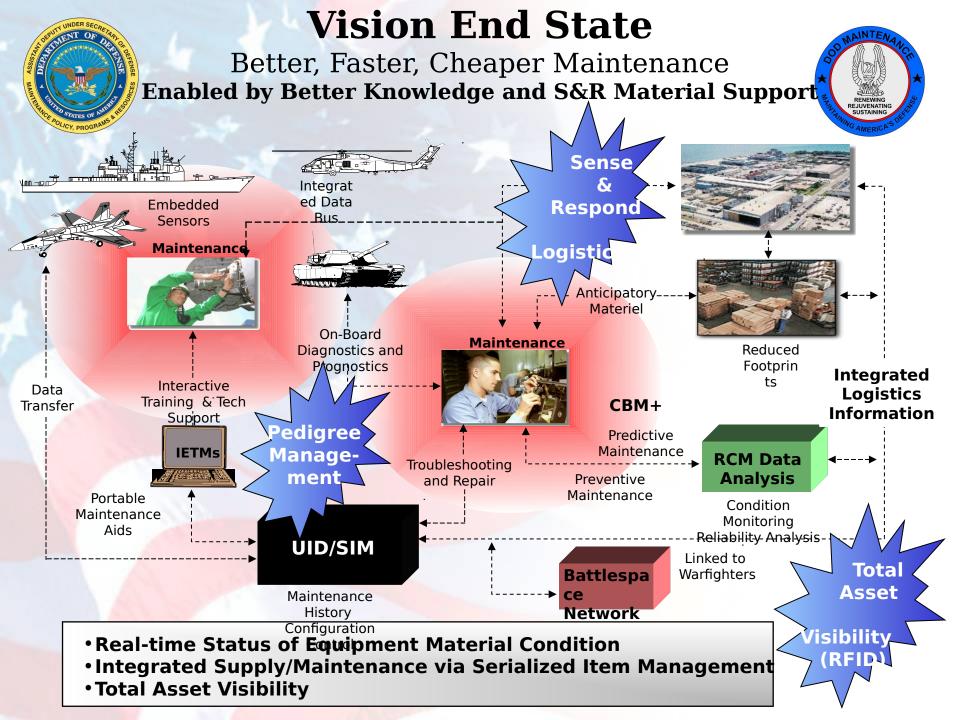


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What's In It for Maintainers?



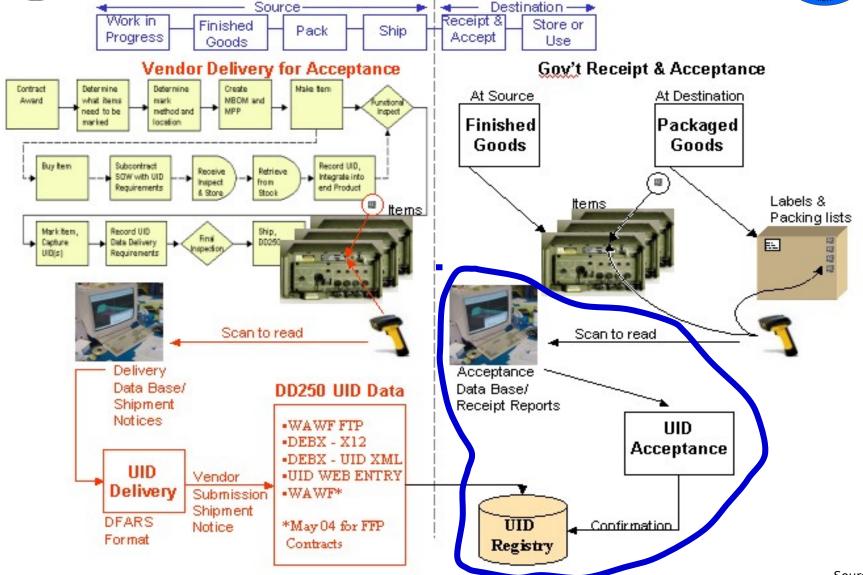






Receipt and Acceptance of UID Items





Source: DAU

